EURGLE

2.4GHZ 3 CHANNEL LCD WHEEL DIGITAL PROGRAMMABLE RADIO GEAR (BACKLIGHT SCREEN)

Instruction Manual

You should read this Manual carefully before you play.

It contains important information for using the model.

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◆Introduction

Thank you for choosing EURGLE 2.4G 3 Channel LCD Wheel Digital Programmable Radio Gear, if you are the first time to use this type of Products, please read this statement carefully and strictly in accordance with the requirements of operation.
You could refer to the manual if you encounter any problems during the operation. Please well keep the manual after use because you might have to use it again next time.

Once again, thanks for buying our products.

◆Remarks

1. Check the Parts List before you get into any installation. Contact us at once if you find any parts are missing.
   Please DO NOT throw the packing away and take a photo on it and all the received items. Send them to cs@r2hobbies.com. We'll then check it for you.
2. Take extra care in charging Lipo battery. Stay aside it when charging and DO NOT charge it over an hour.
   Do not use BLOATED Battery.
   Misused of Lipo Battery may cause damage to it or possibly a FIRE.

◆Part List

#	Item	Qty	Remarks
1.	Eurgle 2.4Ghz 3 Channel Digital Programmable Radio Gear	1	/
2.	Eurgle 2.4Ghz 3 Channel Digital Programmable Receiver	1	/
3.	USB Cable	1	/
4.	User Manual	1	/
5.	AA Battery	8	Optional

◆2.4Ghz System

RF range : 2. 40-2. 4835GHz
Bandwidth : 500Hz
Band sum : 160
RF power : less than 20DBm
2.4G system : AFHDS
Code type : GFSK
ANT length : 26mm
RX Sensitivity : -105DBm

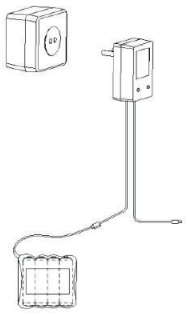
- The system works in between 2.400GHz to 2.4835GHz frequencies that have been divided into 160 frequency points. Each system uses 16 frequencies points and 160 hopping frequency. By using various switching-on time, frequency hopping and different frequency points, the system can passively avoid frequency jamming.
- The system uses a linear spread of fine paragraph by excess antenna, which covers the entire band width of the antenna bandwidth range, greatly enhances the efficiency of the system launch and receiving sensitivity. It greatly improves system stability, and strengthens the passive anti-Jamming capability of the system.
- The system uses low power consumption components, and the receiver chip is extremely sensitive; the system uses interval signal transmission, thereby reducing the transmission power, and increasing the operating. Comparatively this system consumes only one tenth of the normal FM system.

◆ Battery Charging Note

- If your transmitter, receiver using a nickel-cadmium, nickel-metal hydride rechargeable battery, you have to well -check before you use.
  If lack of electricity, it could happen those phenomenon like inadequate control or out of control, resulting accident.
  So please charge immediately when the battery lacks of electricity.
- If you are using a nickel-cadmium-cadmium, nickel-metal hydride batteries for recharging, please use our company-dedicated charger.
  If the electrical current is too large and it may lead to temperature over-heated and cause fire burning accident.
  Please cut off the power supply immediately after recharging.
  Please take out the battery from the transmitter when you are not using it within a period, it is because the battery may damage the aircraft batteries, thus being exposed.

- TRANSMITTER CHARGER
  1. Install the battery to transmitter with correct direction, and cover it.
  2. Connect the charger to the commercial power connector.
  3. Connect the charger to the transmitter Connector.
  4. Cut off the power supply immediately after Recharge completed.

- RECEIVER CHARGER
  1. Connect the charger to the commercial power connector.
  2. Connect the Rechargeable receiver with battery charger.
  3. Recharge completed, cut off the power supply immediately.



◆ Transmitter Parameter

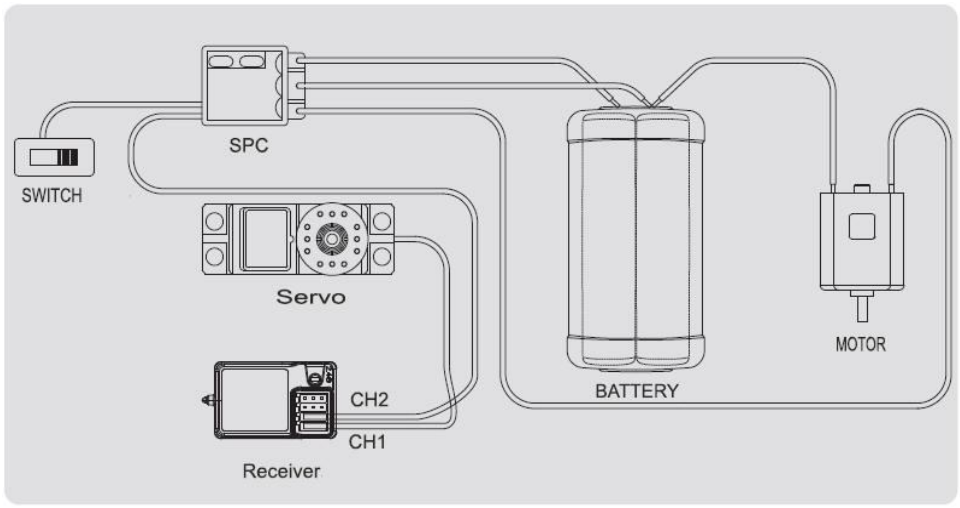
Channels : 3 Channels
Model Type : Car/ Boat
RF Power : No more than 10mW
Modulation : GFSK
System Type : AFHDS
Sensitivity : 1024
Low Voltage Warning : Yes (Less than 9.5V)
DSC Port : Yes (3.5mm)
Charger Port : Yes
Power : 12VDC (1.5V*8)
Weight : 395g
ANT Length : 26mm
Size : L154 x W127 x H270mm
Color : Black
Certificate : CE(0678) FCC

◆ Receiver Parameters

Channels : 3 Channels
Model Type: Car/ Boat
RF Receiver Sensitivity: -105dbm
Modulation : GFSK
System Type : AFHDS
Sensitivity : 1024
Low Voltage Warning : Yes (Less than 9.5V)
DSC Port : Yes (3.5mm)
Charger Port : Yes
Power : 12VDC (1.5V*8)
Weight : 395g
ANT Length : 26mm
Size : L37.6 x W22.3 x H13mm
Color : Black
Certificate : CE(0678) FCC

◆ Receiver Connectivity

■ Installation when a motor controller is used.



Remark : Place the antenna of the receiver vertically with the plane! And don't let it close to the metal thing for assuring its sensitivity.(See Figure 1)

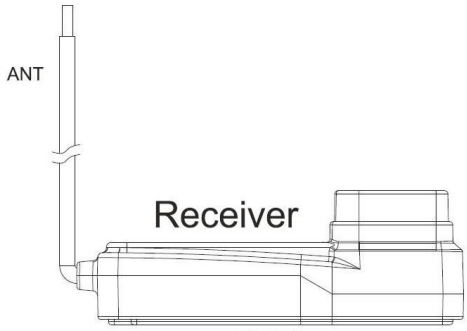
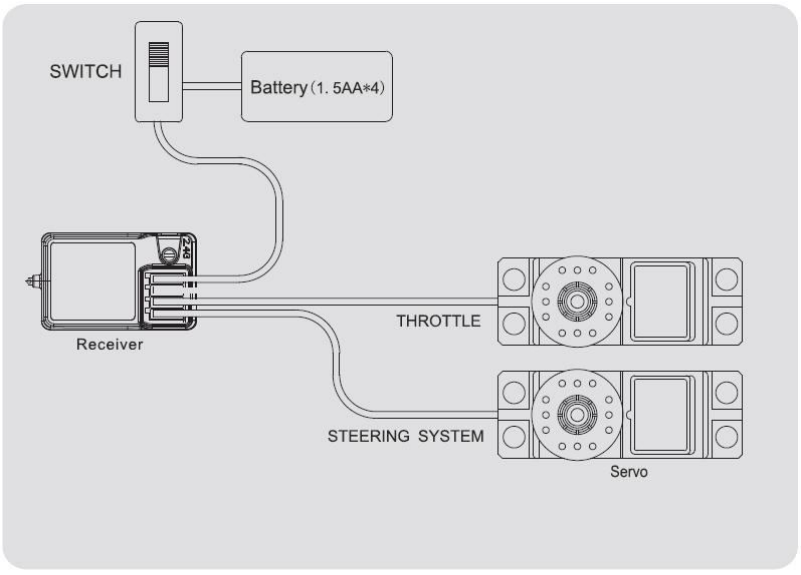


Figure 1

■ Installation for Gas Powered Models



◆2.4Ghz Operation Notes

■ Matching (Code)

Our products are well matched in the factory; you do not need to match by yourself. But if your are going to match the receiver with other transmitter or you needs to change a new receiver or transmitter, please follow the following steps:

1. Install the battery to 2.4G transmitters and shut it down.
2. Insert the matching lines to the channel BIND / CH3 port of the receiver.
3. Connect the receiver battery to VCC port of the receiver, on the same time the two LED are flashing and this means the receiver are going to the matching status
4. Press and hold the button on the transmitter, and then switch on the power supply.
5. Observe the LED on the receiver, if find that the LED is not flash anymore and that means successful Matched.(This process will take about 5 seconds)
6. Release the match button on the transmitter, takes out the match line.
7. Install the server and then test.
8. If the tests fail, please repeat the action above.
9. If the tests success, then insert the power supplies port into VCC, match complete.

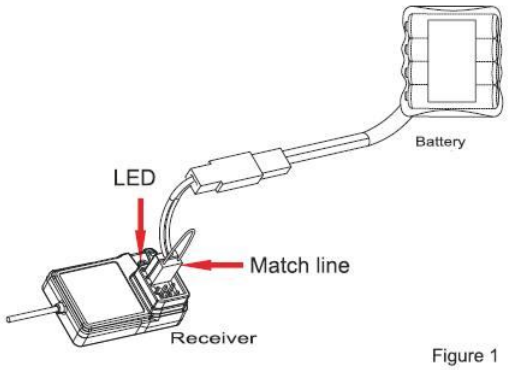


Figure 1

■ Power ON

1. Connect every part
2. Switch on the power supply of the transmitter
3. Connect the power supply of the receiver
4. Receiver LED Light Solid
5. Finish and Use

■ Shut Down

1. Cut off the receiver power supply
2. Cut off the transmitter power supply

◆ Each Part of E3T Transmitter

1. 2.4Ghz Antenna
2. Steering Wheel
3. Channel 3
4. Battery Box
5. D/R
6. Channel 3 Trim
7. Power
8. DSC for Simulate
9. Charger

A. Throttle Trigger
B. LCD
C. Back
D. Bind
E. End
F. Enter (Right / Left)
G. TH Trim (Down)
H. TH Trim (Up)
I. ST Trim (Left)
J. ST Trim (Right)

◆ LCD Function Explanation

■ LCD Display

1. Turn the ENTER button counterclockwise: decrease the rate
2. Turn the ENTER button: increase the rate
3. Press ENTER button: select the menu
4. Press BACK button: return to the menu
5. Press END button: end the programming

■ OPENING SCREEN

1. Show current model number and user name, Press ENTER button, the screen will show voltage and model number
2. “LOW POWER” will be blinking when the voltage is lower than 9.5V, simultaneously buzzer will be warning.

■ Model

1. Function explanation
   - The radio (FS-GT3B) can be stored with ten memories (FS0-FS9), and each memory in the radio can be setup separately to match up with different models.
2. Parameter specification
   - The initial model NO. is Model “NO.0”. ACB is for the name of model, the initial data is “FS0”
3. Operation
   - Switch on the transmitter and press the “ENTER” button to be ready for choice
   - Turn to left or right to choose the model you want from the menu, then press “ENTER” button and enter the next menu, meanwhile “8” will flash, at last turn left or right and confirm the model. (totally 10sets of memories. 0 to 9).
   - Press “ENTER” button to finish the operation after edition.
   - Return to menu option Press BACK button and return to the initial menu at any condition.

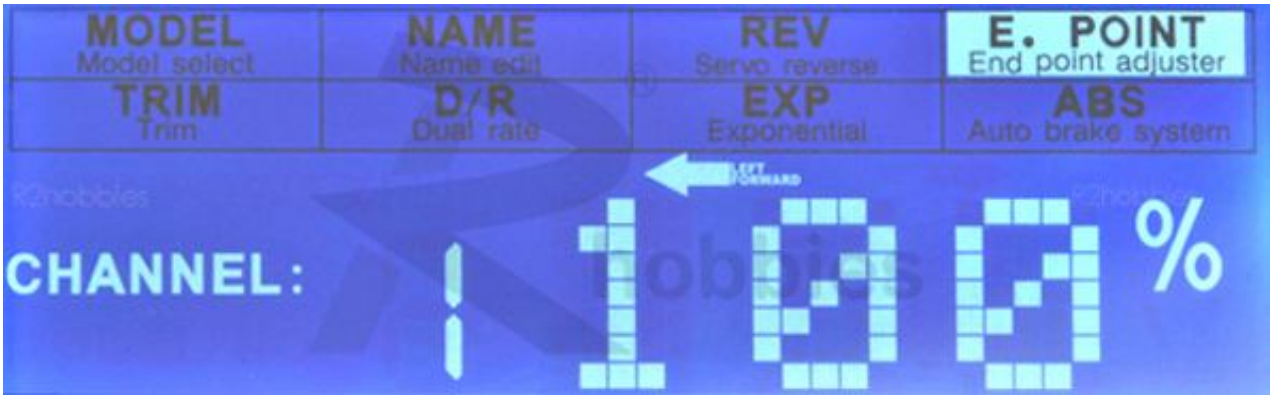
■ NAME

1. Function explanation
   - This function allows you to assign a number to each model memory and a user name (three characters).
2. Parameter specification
   - MODEL NO: Model number
   - ACB: User name
3. Operation
   - Press the “ENTER” button and turn to select the NAME option. The selected function will be blinking. Select the channel by turning the “ENTER” button, and then press the “END” button.
   - Turn the “ENTER” button to select letter. After this, press the “END” button to finish the setting. The rest can be done in the same way.
   - After finishing the setting of three channels, press the “ENTER” button to return to menu screen.
   - Press “BACK” to return to the opening screen.

■ REV

1. Function explanation
   - This function reverses the direction of the operations of servos: steering, throttle, and channel 3.
2. Parameter specification
   - Channel : 1 to 3
   - REV : Reverse
   - NOR : Normal
3. Operation
   - Press the “ENTER” button and turn to select the TRIM option. The selected function will be blinking.
   - Select the channel by turning the “ENTER” button, and then press the “END” button (now the “REV” and “NOR” will be blinking).
   - Turn the “ENTER” button to select “REV” or “NOR”. After this, press the “END” button to finish the setting. The rest can be done in the same way.
   - After finishing the setting of three channels, press the “ENTER” button to return to menu screen.
   - Press “BACK” to return to the opening screen.

■ E. POINT

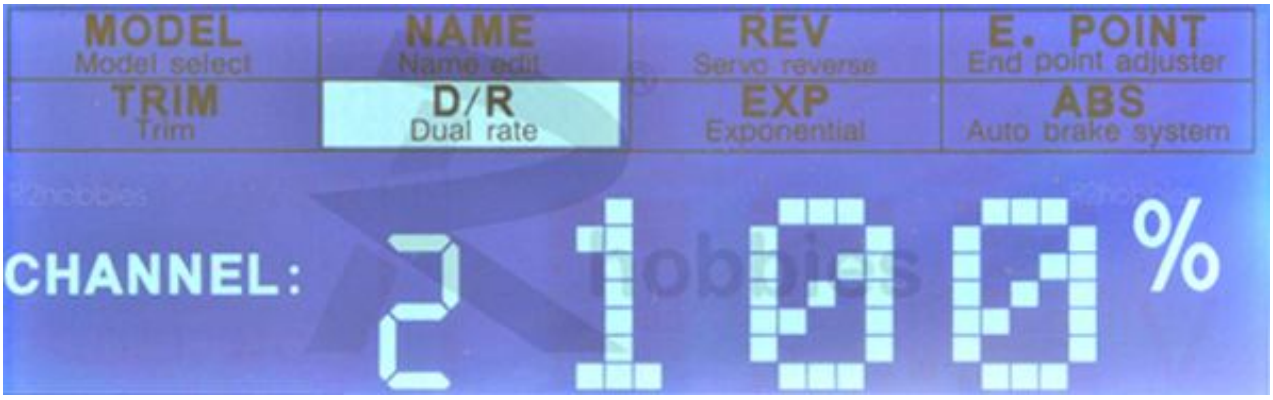


1. Function explanation
   - Use this function when performing left and right steering angle adjustments, throttle high Side/brake side amount adjustment, and channel 3 servos up side/down side operation amount adjustment during linkage setup.
   - It use correct steering angel of adjusting left and right steering angles when there is a difference in the Left and Right turning radios.
2. Parameter specification
   - CHANNEL :1 to 3
   - Output Value : 100%
   - Adjustment range : 0~120% (Initial value is 100%) LEET, FORWORD or RIGHT, BACK(select by steering wheel or throttle trigger)
3. Operation
   - Press the “ENTER” button and turn to select the TRIM option. The selected function will be blinking. Select the channel by turning the “ENTER” button, and then press the “END” button(now the icon will be blinking).
   - Turn the “ENTER” button to adjust the rate. After this, press the “END” button to finish the setting. The rest can be done in the same way. After finishing the setting of three channels.
   - Press “BACK” to return to the opening screen.

■ TRIM

1. Function explanation
   - Use this function to adjust the neutral position of the steering, throttle and channel 3 servos.
2. Parameter specification
   - CHANNEL: 1 to 3
   - R30: steering or 3rd channel right side, adjustment range: 0~30(initial value isN00)
   - L30: steering or 3rd channel left side, adjustment range: 0~30(initial value is N00)
   - F30: throttle forward side, adjustment range: 0~30(initial value is N00)
   - B30: throttle backward side, adjustment range: 0~30(initial value is NOO)
3. Operation
   - Press the “ENTER” button and turn to select the TRIM option. The selected function will be blinking.
   - Select the channel by turning the “ENTER” button, and then press the “END” button (now the percentage will be blinking). Turn the “ENTER” button to adjust the rate.
   - Press the “END” button to finish the setting. The rest can be done in the same way. After finishing the setting of three channels.
   - Press the “ENTER” button to return to menu screen.
   - Press “BACK” to return to the opening screen.

■ D/R



1. Function explanation
   - By setting the dual rates function, you can limit the total travel of each individual Channel.
2. Parameter specification
   - CHANNEL : 1 to 3
   - Dual Rate : 100%,
     When you want to increase the servo travel, turn the button to increase the rate.
     When you want to decrease the servo travel, turn the button to decrease the rate.
     0% is no signal output, 100% is maximum signal output.
   - Adjustment range : 0~100% (Initial value is 100%)
3. Operation
   - Press the “ENTER” button and turn to select the D/R option. The selected function will be blinking. Select the channel by turning the “ENTER” button, and then press the “END” After this, press the “END” button to finish the setting. The rest can be done in the same way.
   - Press the “ENTER” button to return to menu screen.
   - Press “BACK” to return to the opening screen.

■ EXP

1. Function explanation
   - This function is used to change the sensitivity of steering servo's 3 channels around the neutral position. In order to "Soften" the response according to user's demand.
2. Parameter specification
   - CHANNEL : 1 to 3
   - Steering EXP rate 100%
     When you want aggressive steering operation, turn the button to increase the rate.
     When you want to make steering operation less aggressive, turn the button to decrease the rate.
   - Adjustment range : −100%~0~+100% (Initial value is 0)
3. Operation
   - Press the "ENTER" button and turn select the EXP option. The selected function will be blinking.
     Select the channel by turning the "ENTER" button. And then press the "END" button (now the percentage will be blinking). Turn the "ENTER" button to adjust the rate. After this, press the "END" button to finish the setting. The rest can be done in the same way.
   - Press the "ENTER" button to return to menu screen.
   - Press "BACK" to return to the opening screen.

■ ABS

1. Function explanation
   - While applying the brakes, locking them up can be easily done, which can cause your vehicle to spin out of control, this can be eliminated by pulsing the brakes, so that full control of your vehicle can be achieve at all times. The effect as like that of a A.B.S in a real passenger car.
2. Parameter specification
   - CHANNEL: It's only available in channel 2.
   - OFF : A.B.S. Function is OFF
   - SLW : Slow Pulse
   - NOR : Normal Pulse
   - FST : Fast Pulse
   - Handy Tips : This section for cars vary from servo to servo, the best choice is the type that is suitable for your car.
3. Operation
   - Press the "ENTER" button and turn to select the ABS option. A selected function will be blinking.
   - Turn the "ENTER" button to change the setting of ABS function, there are 4 settings: OFF, SLW, NOR, FST,
   - Press the "ENTER" button to return to menu screen.
   - Press "BACK" to return to the opening screen.

◆Transmitter Function Notes

■ STEERING CONTROL

1. Function explanation
   - This function is to control the direction, When the steering turn to right then the front wheel will turn to right (see the picture), When the steering turn to left then the front wheel will turn to left.
2. Operation
   - Adjust the dual rate of the steering by adjusting the D/R knob.

■ THROTTLE CONTROL

1. Function explanation
   - This function is to control the throttle speed, When pull the throttle trigger back, Car will a forward (see the picture), When push the throttle trigger, The car will put on the brakes or back(according to the different ESC) (see the picture)
2. Operation
   - To control it by pushing and pulling back the throttle trigger after power on.

◆Fail Safe Function

■ Function

Failsafe aims to prevent out-of-control driving of RC Car or RC Boat. If the Receiver is not able to receive any signal, from the control to Throttle, the parameter of Throttle on Receiver will turn back to its original setting.

■ Setting

1. Turn on the Transmitter switch
2. Turn on the Receiver switch, the LED will be lighting
3. Adjust Transmitter's Throttle, make the car/boat to stop or flameout, then keep still.
4. Press the "Setting" button on Receiver (as the picture below), the LED will be flashing, then stop after 3 seconds around, which means setting finished.

■ Testing

1. Turn on the Transmitter switch
2. Turn on the Receiver switch
3. Turn off the Transmitter switch
4. Servo of Throttle will turn back to it's original setting automatically
5. Setting is successful if above procedures finished completely

◆Simulate Function

■ Function Introduction

This function is for the virtual RC racing through the computer, you can practice the racing from the computer.

■ Operation Method

1. Hook up the DSC port of your Transmitter to the USB adaptor (fs-sm 100) and plug the USB adaptor into your PC notebook.
2. Turn on the Transmitter.
3. Open the VRC software
4. Follow the on screen instruction to set.

■ Remark

The VRC software provided is free which is offer only one basic track and training ground.
You can download it from VRC Official Website : http://www.virtualrc.com/.
If you need any other track, please contact VRC Company, thank you!

We hope you'll enjoy R2hobbies.com Product!

Do join our FREE membership for 10%off Offer!